



MicroMag Description & Specifications

Specifications - Rev. 6.1

Controller

Dimensions.....	8.50"l, 6.00"w, 2.10"h
Mounting Holes.....	Mounts on a backplane using four #6 sheet metal screws
Operating Temperature.....	-4°F to +158°F (-20°C to +70°C)
Storage Temperature.....	-4°F to +158°F (-20°C to +70°C)
Sensor Inputs (SI).....	10 inputs 0-5vdc (10-bit A/D)
Relay Outputs (RO).....	6 outputs 5.0amps @ 24 vac
Analog Outputs (AO).....	4 outputs 0-10vdc
Printed Circuit Board	Four layer with separate power and ground planes
Input Power (Standard)	115vac ±10% 50/60Hz @ 77°F (25°C) ambient, 25VA min
Current Draw	89mA @ 115VAC
MCS-I/O Comm Port	1 @ 38,400 baud
RS-485 Comm Port	2 @ 19,200 to 115,200 baud, select from MCS Protocol, Bacnet MSTP, Modbus RTU
Real Time Clock	Battery backup
Power Detection	Automatic power fail reset
Real Time Clock	Battery backed
Power Detection	Automatic power fail reset

Keypad/LCD

Display.....	2 x 16 Backlit on I ² C Bus
Keypad Layout.....	6 keys (Menu, Enter, 4 direction)
Connection	12 pin header plus 4 nylon bolts

MicroMag Cover

Comes with a Cover as shown in the photo on the left. The cover is designed to mount on front of the circuit board or it can be mounted on the faceplate of your enclosure as shown in photo to the right.



The MicroMag has two RS-485 port. Both ports allow the user to interactively communicate with the MicroMag via MCS-Connect. A BMS (Building Management System) running Modbus RTU or BACnet MSTP can also communicate with the MicroMag via the RS-485 port for monitoring purposes.

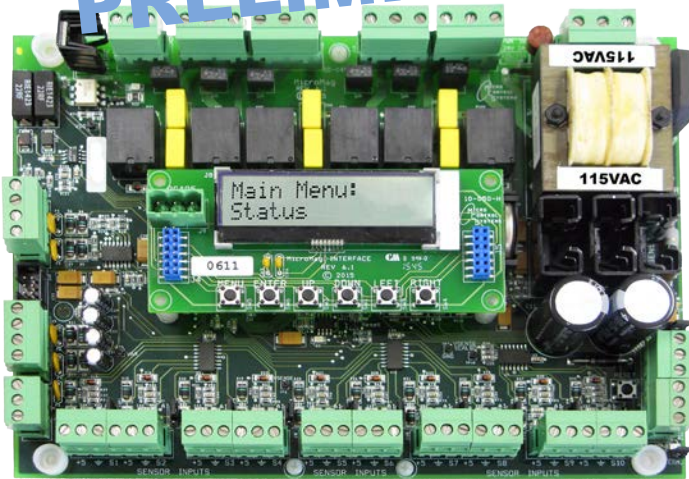
A complete software support package is available for your PC allowing for system configuration, dynamic on-line display screens, remote communication, graphing, and more. Because the terminal blocks are removable, board replacement requires no wires to be removed.

Options

- 24vac
- 230vac

Revision 2016-02-26

PRELIMINARY



Part # MicroMag

PRELIMINARY



MicroMag with Cover in place

Description

The **MicroMag** is a rugged controller designed for the hostile environment of the HVAC/R industry. It is designed to be the primary manager of the package it is controlling. The MicroMag provides flexibility with set points and control options that can be selected prior to commissioning a system or when the unit is live and functioning. Displays, alarms and other interfaces are accomplished in a clear and simple language that informs the user as to the status of the controller.

The MicroMag is designed to control up to 4 circuits with up to 4 compressor each. Complementing the MicroMag controller are two expansion boards that allow 18 Relay Outputs, 1 Triac Output, 26 Sensor Inputs and 12 Analog Outputs. The expansion boards use the RS-485 protocol, allowing a 5000 ft distance between the MicroMag and its expansion boards.